

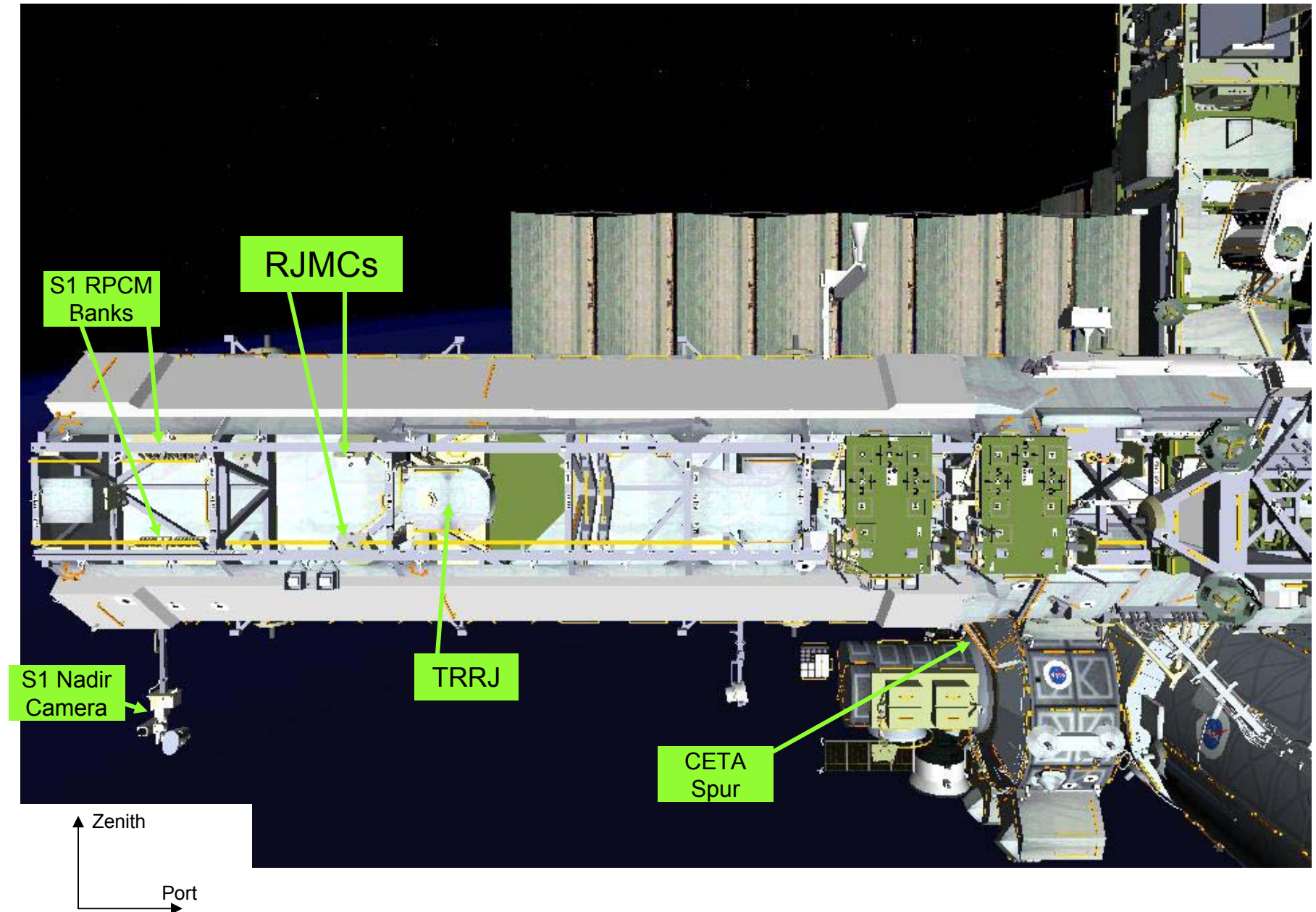
RJMC Retrieve on EVA 3

- The ISS Program has asked you to retrieve the S1 Zenith RPCM and bring it home
 - This RJMC failed much sooner than expected and troubleshooting is highly desired prior to the launch of spares and the 4 integrated RJMCs on flights 12A & 13A

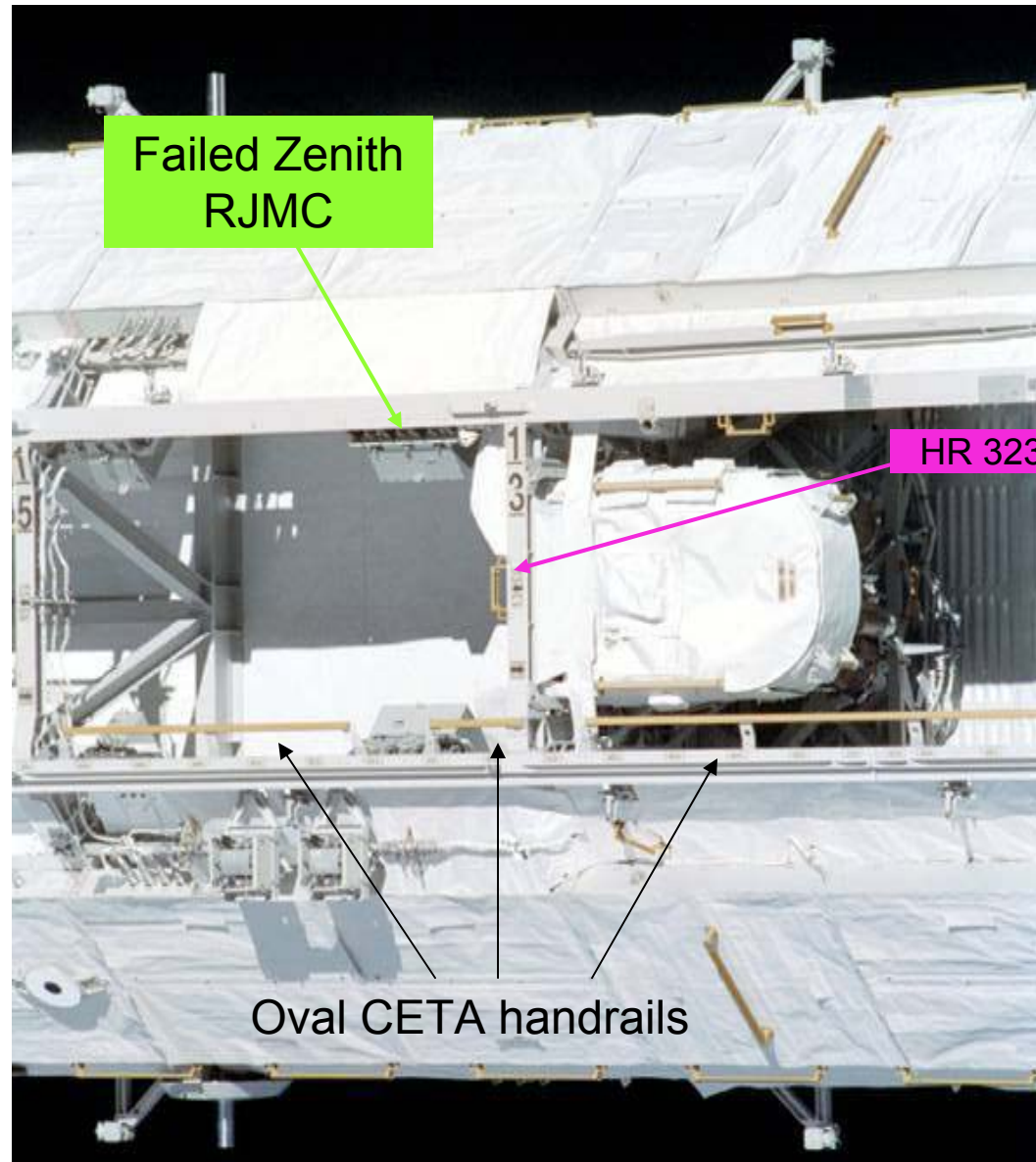
RJMC Basics

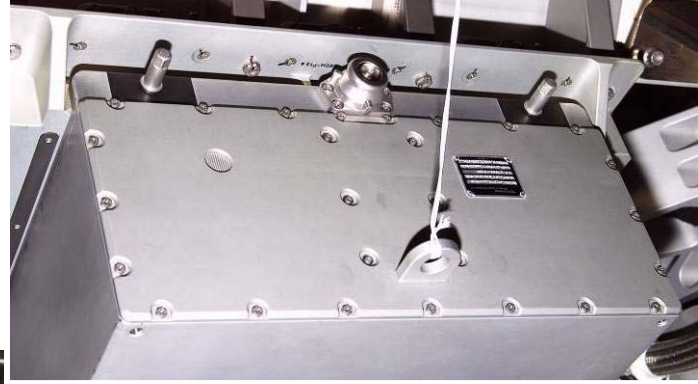
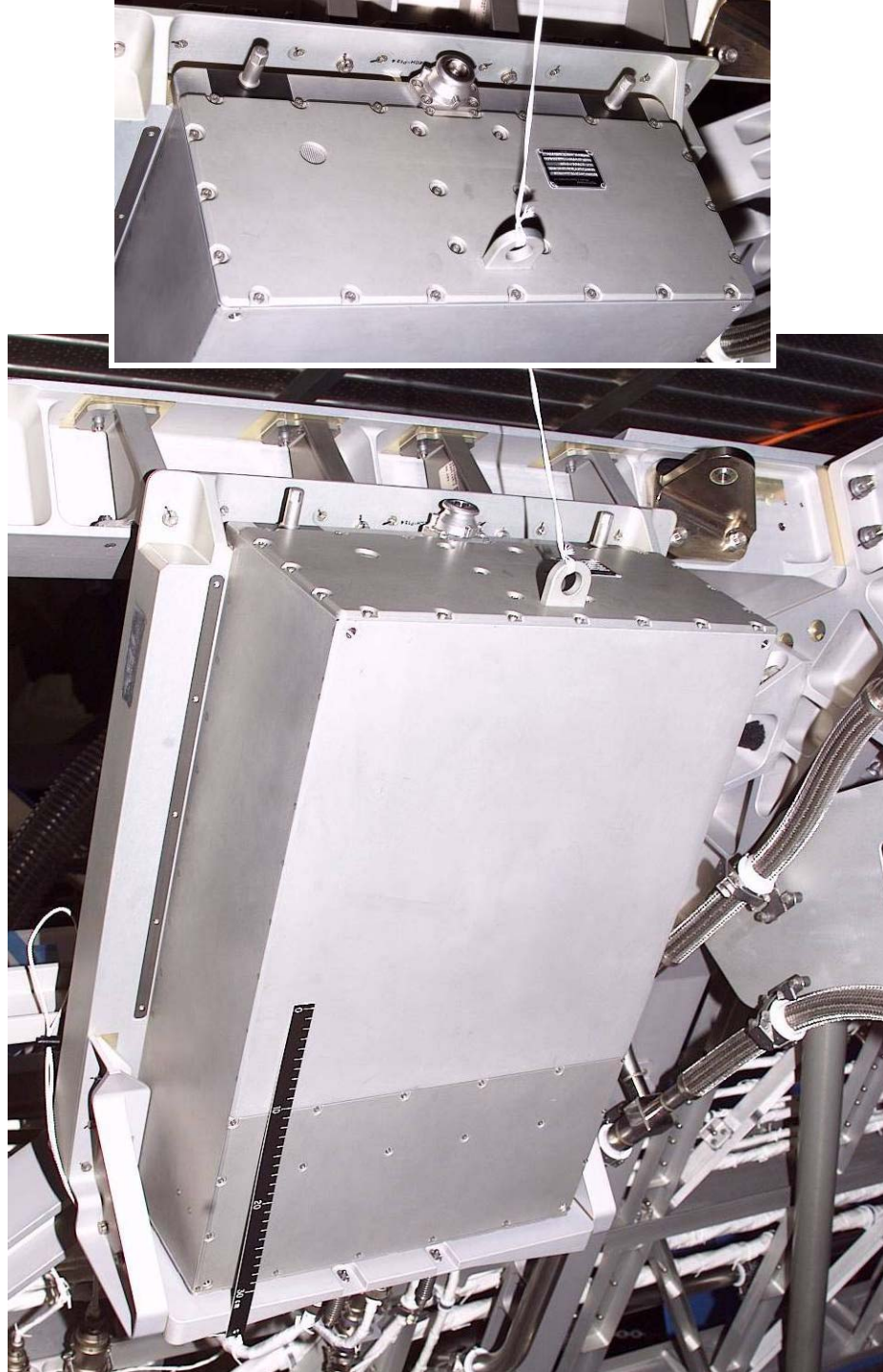
- The failed RJMC is in S1 Bay 13, adjacent to the Zenith rail and accessible thru Face 1
- The RJMC is a typical “6B box” with 3 bolts (like the dummy box)
 - A center “jack bolt” within the micro-conical is used to draw the RJMC in and engage the blind mate connectors during installation and the reverse for removal
 - Two outer “captive fasteners” provide additional on-orbit restraint; these bolts must be completely released prior to driving the center jacking bolt
- There are no fins or other sensitive material (e.g. cotherm or thermal paint) on the exterior of the box
- There are 4 blind-mate connectors on the back of the box. The pins are on the RJMC side, but are recessed
- The rail & connectors will be left exposed until a new RJMC is launched
- The RJMC needs to be stowed in the Airlock within 1.5 hours of removal
 - We plan to have you stow the RJMC in the ISS A/L with the MISSEs
 - We would also like you to take off the scoop after you stow it in the ISS A/L and stow the scoop on the lid of the starboard Z1 ETSD.
- Note that the center jacking bolt cannot be driven with the round scoop installed on the microconical fitting
 - The wobble joint on the EVA socket interferes with the interior of the scoop and prevents the socket from being fully inserted.
 - The procedure has you tether to the RJMC and release all 3 bolts prior to installing the scoop for removal of the RJMC

S1 Overview (from DOUG)

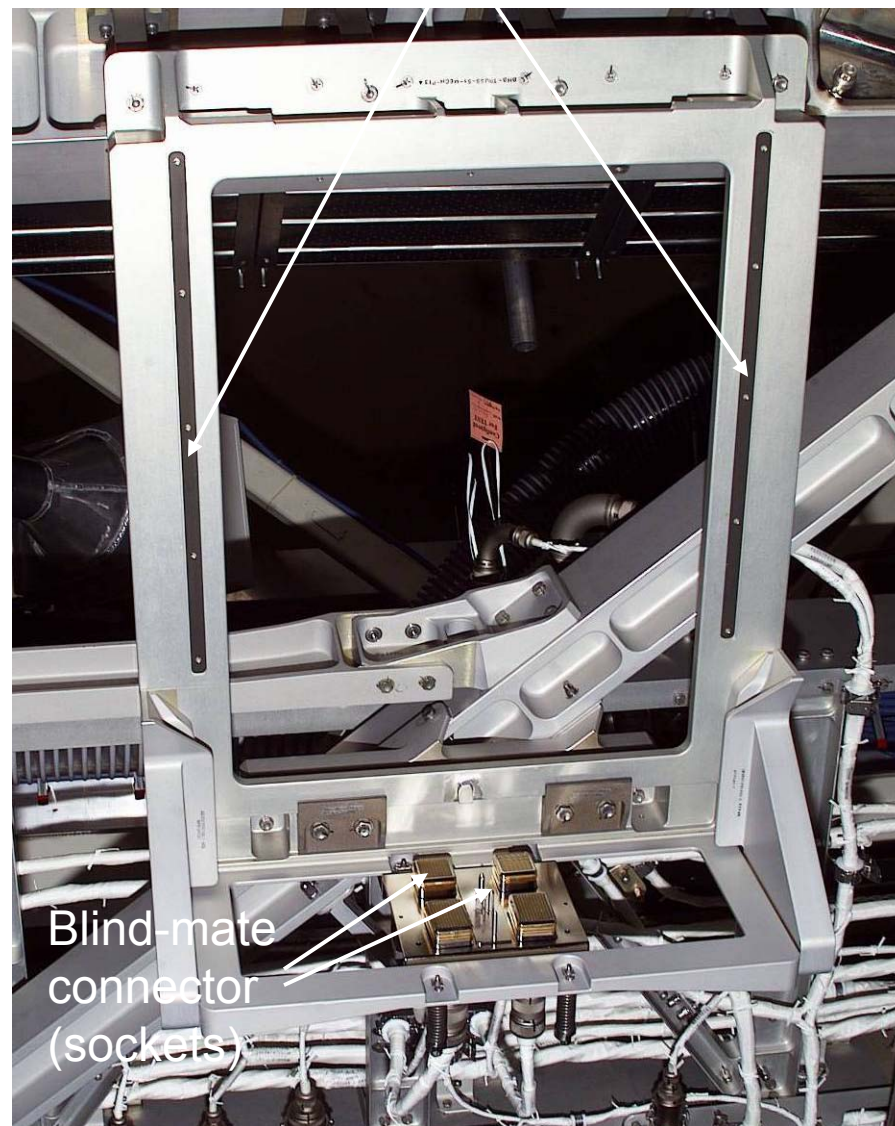


S1 Bay 13 Overview





Guide Rails



Blind-mate
connector
(sockets)

RJMC (upside down)

